

## INFORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

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C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

COUNTRY USSR

REPORT

SUBJECT

Portable Soviet Radio Telephone, R-109  
*detailed description of,  
 including sketch.*

DATE DISTR.

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SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

A report, with sketch, of the Soviet portable radio telephone  
 R-109

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## RADIO TELEPHONE (R-109), PORTABLE SOVIET SIGNAL EQUIPMENT

## A. R-109 and R-106 RADIO TELEPHONE SETS (See Annex A)

1. General Description

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the R-109 radio telephone set <sup>2</sup>. as being a small portable one-man, pack-type radio transceiver.

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2. Detailed Characteristics

The set was about 40 cm wide, 55 cm high and about 19 cm thick. estimated weight at about 25 kg. It used a whip-type collapsible antenna about one-and-one-half meters long and would communicate over a distance of about two to three kilometers. the frequency selector switch had four positions on it.

The set was operated with a battery of unknown voltage which was inserted from the top. During operation of the set there was a persistent wavering buzz or hum in the headset.<sup>3</sup> batteries for this set being recharged but not being thrown away.

When the microphone and headset were not in use they were placed in a compartment in the top of the set which was adjacent to the battery compartment. The set was placed in transmitting position when a button on the microphone was pushed. When the button was released the set was in receiving position.

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B. TANTAL WARNING SYSTEM

[redacted] the "Tantal" border warning system as consisting of a thin wire, about one millimeter in diameter, stretched the length of the border it is intended to guard, and connected to [redacted] a "switchboard" (kommutator). The wire was of the same color as the immediate surroundings, for camouflage purposes, and was placed about two-thirds of a meter above the ground. [redacted] when the wire was touched an unknown kind of alarm was indicated on the "switchboard", which also indicated whether the disturbance came from the front or back of the wire. [redacted]

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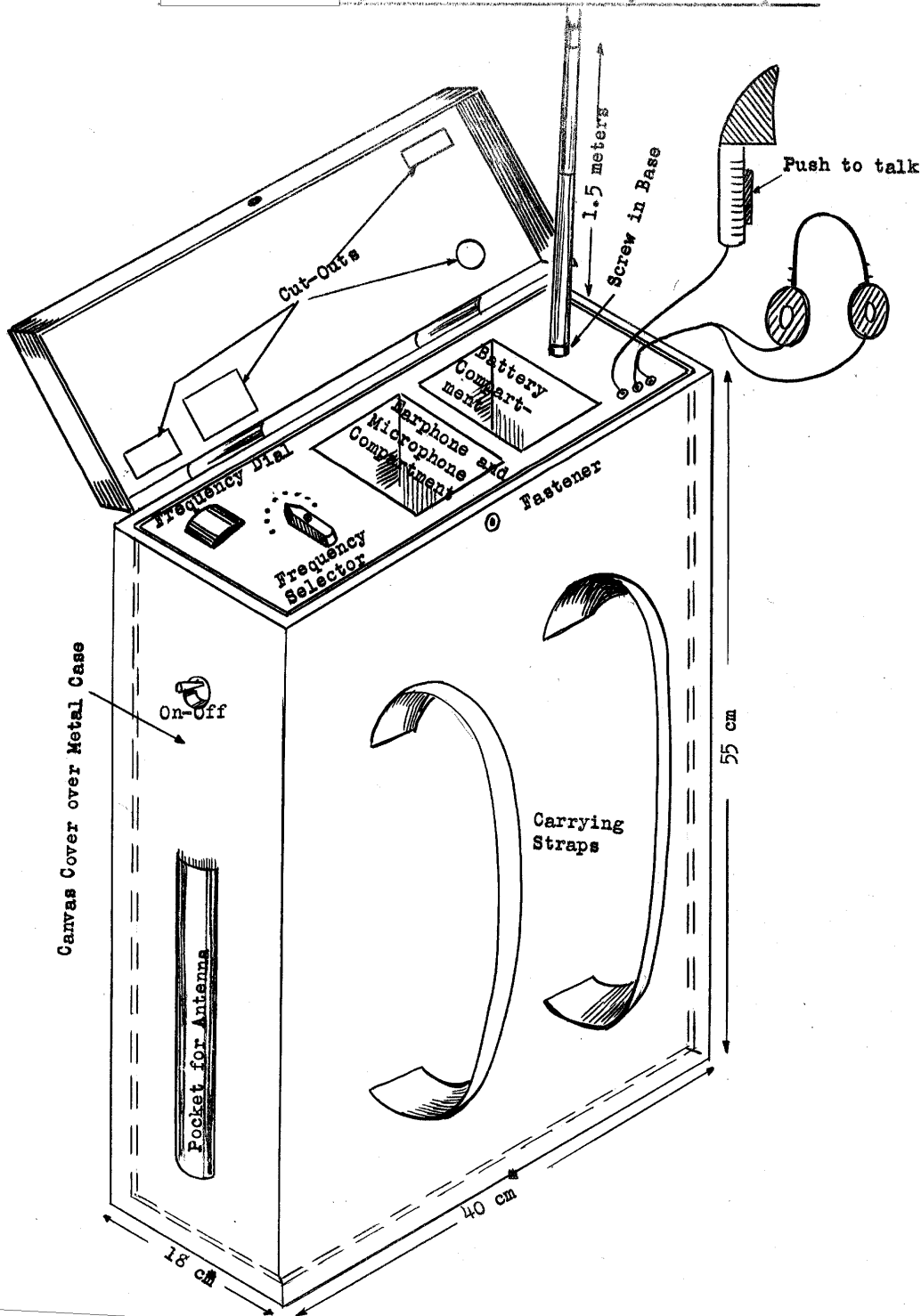
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Annex A

Sketch of the Soviet R-109 Radio-Telephone

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